

09/10/08 673

ATT/F/11

Carlsbad  
CA  
N/A  
N/A

## Search Results - Record(s) 1 through 38 of 38 returned.

1. Document ID: US 6013522 A  
Entry 1 of 38

File: USPT  
Jan 11, 2000

US-PAT-NO: 6013522  
DOCUMENT-IDENTIFIER: US 6013522 A

TITLE: Antisense inhibition of human Smad1 expression

DATE-ISSUED: January 11, 2000

INVENTOR-INFORMATION:  
NAME

|                 | CITY     | STATE | ZIP CODE | COUNTRY |
|-----------------|----------|-------|----------|---------|
| Monia; Brett P. | La Costa | CA    | N/A      |         |
| Cowser; Lex M.  | Carlsbad | CA    | N/A      |         |

US-CL-CURRENT: 435/375; 435/325, 435/366, 435/455, 435/6, 435/91.1, 536/23.1, 536/24.31, 536/24.33, 536/24.5

## ABSTRACT:

Antisense compounds, compositions and methods are provided for modulating the expression of Smad1. The compositions comprise antisense compounds, particularly antisense oligonucleotides, targeted to nucleic acids encoding Smad1. Methods of using these compounds for modulation of Smad1 expression and for treatment of diseases associated with expression of Smad1 are provided.  
20 Claims, 0 Drawing figures  
Exemplary Claim Number: 1

US-CL-CURRENT: 536/24.5; 435/325, 435/375, 435/6, 435/91.1, 435/91.31, 536/23.1, 536/23.2, 536/24.3, 536/24.33

## ABSTRACT:

Antisense compounds, compositions and methods are provided for modulating the expression of Smad3. The compositions comprise antisense compounds, particularly antisense oligonucleotides, targeted to nucleic acids encoding Smad3. Methods of using these compounds for modulation of Smad3 expression and for treatment of diseases associated with expression of Smad3 are provided.  
20 Claims, 0 Drawing figures  
Exemplary Claim Number: 1

3. Document ID: US 6013787 A  
Entry 3 of 38

File: USPT  
Jan 11, 2000

US-PAT-NO: 6013787  
DOCUMENT-IDENTIFIER: US 6013787 A

TITLE: Antisense modulation of Smad4 expression

DATE-ISSUED: January 11, 2000

INVENTOR-INFORMATION:  
NAME

|                 | CITY     | STATE | ZIP CODE | COUNTRY |
|-----------------|----------|-------|----------|---------|
| Monia; Brett P. | La Costa | CA    | N/A      |         |
| Cowser; Lex M.  | Carlsbad | CA    | N/A      |         |

US-CL-CURRENT: 536/24.5; 435/6, 435/91.1, 536/23.1, 536/24.3, 536/24.33

## ABSTRACT:

Antisense compounds, compositions and methods are provided for modulating the expression of Smad4. The compositions comprise antisense compounds, particularly antisense oligonucleotides, targeted to nucleic acids encoding Smad4. Methods of using these compounds for modulation of Smad4 expression and for treatment of diseases associated with expression of Smad4 are provided.  
20 Claims, 0 Drawing figures  
Exemplary Claim Number: 1

2. Document ID: US 6013788 A  
Entry 2 of 38

File: USPT  
Jan 11, 2000

US-PAT-NO: 6013788  
DOCUMENT-IDENTIFIER: US 6013788 A

TITLE: Antisense modulation of Smad3 expression

DATE-ISSUED: January 11, 2000

INVENTOR-INFORMATION:  
NAME

|                 | CITY     | STATE | ZIP CODE | COUNTRY |
|-----------------|----------|-------|----------|---------|
| Monia; Brett P. | La Costa | CA    | N/A      |         |
| Cowser; Lex M.  |          |       | N/A      |         |

4. Document ID: US 6010906 A  
Entry 4 of 38

File: USPT

Jan 4, 2000

US-PAT-NO: 6010906

DOCUMENT-IDENTIFIER: US 6010906 A

TITLE: Antisense modulation of Jun N-terminal kinase kinase-1 expression

DATE-ISSUED: January 4, 2000

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Ward; Donna T.

San Diego

CA

N/A

N/A

Cowser; Lex M.

Carlsbad

CA

N/A

N/A

US-CL-CURRENT: 435/375; 435/6, 435/91.1, 435/91.3, 536/23.1, 536/24.1, 536/24.5

ABSTRACT:

Antisense compounds, compositions and methods are provided for modulating the expression of Jun N-terminal Kinase Kinase-1. The compositions comprise antisense compounds, particularly antisense oligonucleotides, targeted to nucleic acids encoding Jun N-terminal Kinase Kinase-1. Methods of using these compounds for modulation of Jun N-terminal Kinase Kinase-1 expression and for treatment of diseases associated with expression of Jun N-terminal Kinase Kinase-1 are provided.

24 Claims, 0 Drawing figures

Exemplary Claim Number: 1

5. Document ID: US 6008344 A

Entry 5 of 38

File: USPT

Dec 28, 1999

US-PAT-NO: 6008344

DOCUMENT-IDENTIFIER: US 6008344 A

TITLE: Antisense modulation of phospholipase A2 group IV expression

DATE-ISSUED: December 28, 1999

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Bennett; C. Frank

Carlsbad

CA

N/A

N/A

Cowser; Lex M.

Carlsbad

CA

N/A

N/A

US-CL-CURRENT: 536/24.5; 435/325, 435/6, 435/91.1, 435/91.31, 536/23.1, 536/23.2, 536/24.3

ABSTRACT:

Antisense compounds, compositions and methods are provided for modulating the expression of Phospholipase A2 Group IV. The compositions comprise antisense compounds, particularly antisense oligonucleotides, targeted to nucleic acids encoding Phospholipase A2 Group IV. Methods of using these compounds for modulation of Phospholipase A2 Group IV expression and for treatment of diseases associated with expression of Phospholipase A2 Group IV are provided.

20 Claims, 0 Drawing figures

Exemplary Claim Number: 1

6. Document ID: US 6008048 A

Entry 6 of 38

File: USPT

Dec 28, 1999

US-PAT-NO: 6008048

DOCUMENT-IDENTIFIER: US 6008048 A

TITLE: Antisense inhibition of EGR-1 expression

DATE-ISSUED: December 28, 1999

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

Monia; Brett P.

La Costa

CA

N/A

N/A

Cowser; Lex M.

Carlsbad

CA

N/A

N/A

US-CL-CURRENT: 435/375; 435/366, 435/6, 435/91.1, 536/23.1, 536/24.31, 536/24.33, 536/24.5

ABSTRACT:

Antisense compounds, compositions and methods are provided for modulating the expression of EGR-1. The compositions comprise antisense compounds, particularly antisense oligonucleotides, targeted to nucleic acids encoding EGR-1. Methods of using these compounds for modulation of EGR-1 expression and for treatment of diseases associated with expression of EGR-1 are provided.

10 Claims, 0 Drawing figures

Exemplary Claim Number: 1

7. Document ID: US 5998206 A

Entry 7 of 38

File: USPT

Dec 7, 1999

US-PAT-NO: 5998206

DOCUMENT-IDENTIFIER: US 5998206 A

TITLE: Antisense inhibitor of human G-alpha-12 expression

DATE-ISSUED: December 7, 1999

INVENTOR-INFORMATION:

NAME

| CITY | STATE | ZIP CODE | COUNTRY |
|------|-------|----------|---------|
|------|-------|----------|---------|

Cowser; Lex M.

|          |    |     |     |
|----------|----|-----|-----|
| Carlsbad | CA | N/A | N/A |
|----------|----|-----|-----|

US-CL-CURRENT: 435/375; 435/325, 435/366, 435/455, 435/6, 435/91.1, 536/23.1, 536/24.3, 536/24.31, 536/24.33, 536/24.5

ABSTRACT:

Antisense compounds, compositions and methods are provided for modulating the expression of G-alpha-12. The compositions comprise antisense compounds, particularly antisense oligonucleotides, targeted to nucleic acids encoding G-alpha-12. Methods of using these compounds for modulation of G-alpha-12 expression and for treatment of diseases associated with expression of G-alpha-12 are provided. 10 Claims, 0 Drawing figures Exemplary Claim Number: 1

8. Document ID: US 5998148 A

Entry 8 of 38

File: USPT

Dec 7, 1999

US-PAT-NO: 5998148

DOCUMENT-IDENTIFIER: US 5998148 A

TITLE: Antisense modulation of microtubule-associated protein 4 expression

DATE-ISSUED: December 7, 1999

INVENTOR-INFORMATION:

NAME

| CITY | STATE | ZIP CODE | COUNTRY |
|------|-------|----------|---------|
|------|-------|----------|---------|

Bennett; C. Frank

|          |    |     |     |
|----------|----|-----|-----|
| Carlsbad | CA | N/A | N/A |
|----------|----|-----|-----|

Ackermann; Elizabeth J.

|              |    |     |     |
|--------------|----|-----|-----|
| Solana Beach | CA | N/A | N/A |
|--------------|----|-----|-----|

US-CL-CURRENT: 435/6; 435/325, 536/24.5

ABSTRACT:

Antisense compounds, compositions and methods are provided for modulating the expression of microtubule-associated protein 4. The compositions comprise antisense compounds, particularly antisense oligonucleotides, targeted to nucleic acids encoding

microtubule-associated protein 4.

Methods of using these compounds for modulation of microtubule-associated protein 4 expression and for treatment of diseases associated with expression of microtubule-associated protein 4 are provided.

14 Claims, 0 Drawing figures  
Exemplary Claim Number: 1

9. Document ID: US 5985664 A

Entry 9 of 38

File: USPT

Nov 16, 1999

US-PAT-NO: 5985664

DOCUMENT-IDENTIFIER: US 5985664 A

TITLE: Antisense modulation of Sentrin expression

DATE-ISSUED: November 16, 1999

INVENTOR-INFORMATION:

NAME

| CITY | STATE | ZIP CODE | COUNTRY |
|------|-------|----------|---------|
|------|-------|----------|---------|

Baker; Brenda F.

|          |    |     |     |
|----------|----|-----|-----|
| Carlsbad | CA | N/A | N/A |
|----------|----|-----|-----|

Cowser; Lex M.

|          |    |     |     |
|----------|----|-----|-----|
| Carlsbad | CA | N/A | N/A |
|----------|----|-----|-----|

US-CL-CURRENT: 435/375; 435/366, 435/6, 435/91.1, 536/23.1, 536/24.31, 536/24.33, 536/24.5

ABSTRACT:

Antisense compounds, compositions and methods are provided for modulating the expression of Sentrin. The compositions comprise antisense compounds, particularly antisense oligonucleotides, targeted to nucleic acids encoding Sentrin. Methods of using these compounds for modulation of Sentrin expression and for treatment of diseases associated with expression of Sentrin are provided. 12 Claims, 0 Drawing figures Exemplary Claim Number: 1

10. Document ID: US 5985663 A

Entry 10 of 38

File: USPT

Nov 16, 1999

US-PAT-NO: 5985663

DOCUMENT-IDENTIFIER: US 5985663 A

TITLE: Antisense inhibition of interleukin-15 expression

DATE-ISSUED: November 16, 1999

INVENTOR-INFORMATION:

NAME

| CITY | STATE |
|------|-------|
|------|-------|

|                   |          | ZIP CODE | COUNTRY |                                                                         |                               |                |
|-------------------|----------|----------|---------|-------------------------------------------------------------------------|-------------------------------|----------------|
| Bennett; C. Frank | Carlsbad | CA       | N/A     | US-PAT-NO: 5977341                                                      | 12. Document ID: US 5977341 A | Entry 12 of 38 |
| Cowser; Lex M.    | Carlsbad | CA       | N/A     | DOCUMENT-IDENTIFIER: US 5977341 A                                       | File: USPT                    | Nov 2, 1999    |
|                   |          |          |         | TITLE: Antisense modulation of inhibitor-kappa B kinase-beta expression |                               |                |
|                   |          |          |         | DATE-ISSUED: November 2, 1999                                           |                               |                |
|                   |          |          |         | INVENTOR-INFORMATION:                                                   |                               |                |
|                   |          |          |         | NAME                                                                    |                               |                |
|                   |          |          |         | CITY                                                                    |                               |                |
|                   |          |          |         | STATE                                                                   |                               |                |
|                   |          |          |         | ZIP CODE                                                                |                               |                |
|                   |          |          |         | COUNTRY                                                                 |                               |                |

US-CL-CURRENT: 435/375; 435/366, 435/6, 435/91.1, 536/23.1, 536/24.31, 536/24.33, 536/24.5

**ABSTRACT:**

Antisense compounds, compositions and methods are provided for modulating the expression of Interleukin-15. The compositions comprise antisense compounds, particularly antisense oligonucleotides, targeted to nucleic acids encoding Interleukin-15. Methods of using these compounds for modulation of Interleukin-15 expression and for treatment of diseases associated with expression of Interleukin-15 are provided. 19 Claims, 0 Drawing figures Exemplary Claim Number: 1

11. Document ID: US 5981732 A

Entry 11 of 38

File: USPT

Nov 9, 1999

US-PAT-NO: 5981732

DOCUMENT-IDENTIFIER: US 5981732 A

TITLE: Antisense modulation of G-alpha-13 expression

DATE-ISSUED: November 9, 1999

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Cowser; Lex M.

Carlsbad

CA

N/A

N/A

US-CL-CURRENT: 536/24.5; 435/375, 435/6, 536/23.1, 536/24.1, 536/24.3

**ABSTRACT:**

Antisense compounds, compositions and methods are provided for modulating the expression of G-alpha-13. The compositions comprise antisense compounds, particularly antisense oligonucleotides, targeted to nucleic acids encoding G-alpha-13. Methods of using these compounds for modulation of G-alpha-13 expression and for treatment of diseases associated with expression of G-alpha-13 are provided. 24 Claims, 0 Drawing figures Exemplary Claim Number: 1

12. Document ID: US 5977341 A

Entry 12 of 38

File: USPT

Nov 2, 1999

US-PAT-NO: 5977341

DOCUMENT-IDENTIFIER: US 5977341 A

TITLE: Antisense modulation of inhibitor-kappa B kinase-beta expression

DATE-ISSUED: November 2, 1999

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Monia; Brett P.

La Costa

CA

N/A

N/A

Cowser; Lex M.

Carlsbad

CA

N/A

N/A

US-CL-CURRENT: 536/24.5; 435/375, 435/440, 435/6, 435/91.1, 536/23.1, 536/24.3, 536/24.5

**ABSTRACT:**

Antisense compounds, compositions and methods are provided for modulating the expression of Inhibitor-kappa B Kinase-beta. The compositions comprise antisense compounds, particularly antisense oligonucleotides, targeted to nucleic acids encoding Inhibitor-kappa B Kinase-beta.

Methods of using these compounds for modulation of Inhibitor-kappa B Kinase-beta expression and for treatment of diseases associated with expression of Inhibitor-kappa B Kinase-beta are provided.

19 Claims, 0 Drawing figures

Exemplary Claim Number: 1

13. Document ID: US 5962673 A

Entry 13 of 38

File: USPT

Oct 5, 1999

US-PAT-NO: 5962673

DOCUMENT-IDENTIFIER: US 5962673 A

TITLE: Antisense modulation of inhibitor-kappa B kinase-alpha expression

DATE-ISSUED: October 5, 1999

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Monia; Brett P.

La Costa

CA

N/A

N/A

Cowser; Lex M.

Carlsbad

CA

N/A  
N/A

Sep 28, 1999

US-CL-CURRENT: 536/24.5, 435/375, 435/6, 536/23.1, 536/24.1,  
536/24.3

**ABSTRACT:**

Antisense compounds, compositions and methods are provided for modulating the expression of Inhibitor-kappa B Kinase-alpha. The compositions comprise antisense compounds, particularly antisense oligonucleotides, targeted to nucleic acids encoding Inhibitor-kappa B Kinase-alpha. Methods of using these compounds for modulation of Inhibitor-kappa B Kinase-alpha expression and for treatment of diseases associated with expression of Inhibitor-kappa B Kinase-alpha are provided. 20 Claims, 0 Drawing figures Exemplary Claim Number: 1

US-PAT-NO: 5958773  
DOCUMENT-IDENTIFIER: US 5958773 A

TITLE: Antisense modulation of AKT-1 expression

DATE-ISSUED: September 28, 1999

INVENTOR-INFORMATION:  
NAME

|                 | CITY     | STATE | ZIP CODE | COUNTRY |
|-----------------|----------|-------|----------|---------|
| Monia; Brett P. | La Costa | CA    | N/A      | N/A     |
| Cowser; Lex M.  | Carlsbad | CA    | N/A      | N/A     |

14. Document ID: US 5959097 A

Entry 14 of 38

File: USPT

Sep 28, 1999

US-PAT-NO: 5959097

DOCUMENT-IDENTIFIER: US 5959097 A

TITLE: Antisense modulation of MEK2 expression

DATE-ISSUED: September 28, 1999

INVENTOR-INFORMATION:

| NAME            | CITY     | STATE | ZIP CODE | COUNTRY |
|-----------------|----------|-------|----------|---------|
| Monia; Brett P. | La Costa | CA    | N/A      | N/A     |
| Cowser; Lex M.  | Carlsbad | CA    | N/A      | N/A     |

US-CL-CURRENT: 536/24.5, 435/375, 435/6, 536/23.1, 536/24.1,  
536/24.3

**ABSTRACT:**

Antisense compounds, compositions and methods are provided for modulating the expression of MEK2. The compositions comprise antisense compounds, particularly antisense oligonucleotides, targeted to nucleic acids encoding MEK2. Methods of using these compounds for modulation of MEK2 expression and for treatment of diseases associated with expression of MEK2 are provided. 20 Claims, 0 Drawing figures Exemplary Claim Number: 1

US-CL-CURRENT: 435/375, 435/366, 435/6, 435/91.1, 536/23.1,  
536/24.31, 536/24.33, 536/24.5

**ABSTRACT:**

Antisense compounds, compositions and methods are provided for modulating the expression of Akt-1. The compositions comprise antisense compounds, particularly antisense oligonucleotides, targeted to nucleic acids encoding Akt-1. Methods of using these compounds for modulation of Akt-1 expression and for treatment of diseases associated with expression of Akt-1 are provided. 12 Claims, 0 Drawing figures Exemplary Claim Number: 1

16. Document ID: US 5958772 A

Entry 16 of 38

File: USPT

Sep 28, 1999

US-PAT-NO: 5958772  
DOCUMENT-IDENTIFIER: US 5958772 A

TITLE: Antisense inhibition of cellular inhibitor of apoptosis-1 expression

DATE-ISSUED: September 28, 1999

INVENTOR-INFORMATION:  
NAME

|                         | CITY         | STATE | ZIP CODE | COUNTRY |
|-------------------------|--------------|-------|----------|---------|
| Bennett; C. Frank       | Carlsbad     | CA    | N/A      | N/A     |
| Ackermann; Elizabeth J. | Solana Beach | CA    | N/A      | N/A     |
| Cowser; Lex M.          | Carlsbad     | CA    | N/A      | N/A     |

15. Document ID: US 5958773 A

Entry 15 of 38

File: USPT

N/A

Exemplary Claim Number: 1

US-CL-CURRENT: 435/375; 435/325, 435/366, 435/6, 435/91.1,  
536/23.1, 536/24.31, 536/24.33

ABSTRACT:

Antisense compounds, compositions and methods are provided for modulating the expression of Cellular Inhibitor of Apoptosis-1. The compositions comprise antisense compounds, particularly antisense oligonucleotides, targeted to nucleic acids encoding Cellular Inhibitor of Apoptosis-1. Methods of using these compounds for modulation of Cellular Inhibitor of Apoptosis-1 expression and for treatment of diseases associated with expression of Cellular Inhibitor of Apoptosis-1 are provided.  
12 Claims, 0 Drawing figures  
Exemplary Claim Number: 1

17. Document ID: US 5958771 A  
Entry 17 of 38

File: USPT

Sep 28, 1999

US-PAT-NO: 5958771  
DOCUMENT-IDENTIFIER: US 5958771 A

TITLE: Antisense modulation of cellular inhibitor of Apoptosis-2 expression

DATE-ISSUED: September 28, 1999

INVENTOR-INFORMATION:  
NAME

|                         | CITY         | STATE | ZIP CODE | COUNTRY |
|-------------------------|--------------|-------|----------|---------|
| Bennett; C. Frank       | Carlsbad     | CA    | N/A      | N/A     |
| Ackermann; Elizabeth J. | Solana Beach | CA    | N/A      | N/A     |
| Cowser; Lex M.          | Carlsbad     | CA    | N/A      | N/A     |

US-CL-CURRENT: 435/375; 435/366, 435/6, 435/91.1, 536/23.1,  
536/24.31, 536/24.33, 536/24.5

ABSTRACT:

Antisense compounds, compositions and methods are provided for modulating the expression of Cellular Inhibitor of Apoptosis-2. The compositions comprise antisense compounds, particularly antisense oligonucleotides, targeted to nucleic acids encoding Cellular Inhibitor of Apoptosis-2. Methods of using these compounds for modulation of Cellular Inhibitor of Apoptosis-2 expression and for treatment of diseases associated with expression of Cellular Inhibitor of Apoptosis-2 are provided.  
12 Claims, 0 Drawing figures

18. Document ID: US 5951455 A  
Entry 18 of 38

File: USPT

Sep 14, 1999

US-PAT-NO: 5951455  
DOCUMENT-IDENTIFIER: US 5951455 A

TITLE: Antisense modulation of G-alpha-11 expression

DATE-ISSUED: September 14, 1999

INVENTOR-INFORMATION:

| NAME           | CITY     | STATE | ZIP CODE | COUNTRY |
|----------------|----------|-------|----------|---------|
| Cowser; Lex M. | Carlsbad | CA    | N/A      | N/A     |

US-CL-CURRENT: 435/375; 435/366, 435/6, 435/91.1, 536/23.1,  
536/24.31, 536/24.33, 536/24.5

ABSTRACT:

Antisense compounds, compositions and methods are provided for modulating the expression of G-alpha-11. The compositions comprise antisense compounds, particularly antisense oligonucleotides, targeted to nucleic acids encoding G-alpha-11. Methods of using these compounds for modulation of G-alpha-11 expression and for treatment of diseases associated with expression of G-alpha-11 are provided.  
12 Claims, 0 Drawing figures  
Exemplary Claim Number: 1

19. Document ID: US 5948680 A  
Entry 19 of 38

File: USPT

Sep 7, 1999

US-PAT-NO: 5948680  
DOCUMENT-IDENTIFIER: US 5948680 A

TITLE: Antisense inhibition of Elk-1 expression

DATE-ISSUED: September 7, 1999

INVENTOR-INFORMATION:  
NAME

|                  | CITY     | STATE | ZIP CODE | COUNTRY |
|------------------|----------|-------|----------|---------|
| Baker; Brenda F. | Carlsbad | CA    | N/A      | N/A     |
| Cowser; Lex M.   | Carlsbad | CA    | N/A      | N/A     |

US-CL-CURRENT: 435/375; 435/325, 435/366, 435/6, 435/91.1, 536/23.1, 536/24.31, 536/24.33, 536/24.5

**ABSTRACT:**

Antisense compounds, compositions and methods are provided for modulating the expression of ELK-1. The compositions comprise antisense compounds, particularly antisense oligonucleotides, targeted to nucleic acids encoding ELK-1. Methods of using these compounds for modulation of ELK-1 expression and for treatment of diseases associated with expression of ELK-1 are provided.

12 Claims, 0 Drawing figures  
Exemplary Claim Number: 1

20. Document ID: US 5935994 A  
Entry 20 of 38

File: USPT

Aug 10, 1999

US-PAT-NO: 5935994

DOCUMENT-IDENTIFIER: US 5935994 A

TITLE: Nutritionally balanced dermal composition and method

DATE-ISSUED: August 10, 1999

INVENTOR-INFORMATION:  
NAME

| CITY             | STATE        | ZIP CODE | COUNTRY |
|------------------|--------------|----------|---------|
| Nimni; Marcel E. | Santa Monica | CA       |         |
|                  |              | 90405    | N/A     |

US-CL-CURRENT: 514/458; 514/474, 514/561, 514/562

**ABSTRACT:**

A composition and method for enhancing the appearance of the skin, the composition containing a mixture of essential amino acids, a penetrant, a nucleotide, vitamin C and vitamin E.

6 Claims, 0 Drawing figures  
Exemplary Claim Number: 1

21. Document ID: US 5916910 A  
Entry 21 of 38

File: USPT

Jun 29, 1999

US-PAT-NO: 5916910

DOCUMENT-IDENTIFIER: US 5916910 A

TITLE: Conjugates of dithiocarbamates with pharmacologically active agents and uses therefore

DATE-ISSUED: June 29, 1999

INVENTOR-INFORMATION:  
NAME

| CITY | STATE | ZIP CODE |
|------|-------|----------|
|      |       |          |

|                | COUNTRY |
|----------------|---------|
| Lai; Ching-San | CA      |
| Encinitas      | N/A     |
|                | N/A     |

US-CL-CURRENT: 514/423; 514/514, 548/564, 548/573, 558/235

**ABSTRACT:**

In accordance with the present invention, there are provided conjugates of nitric oxide scavengers (e.g., dithiocarbamates, or "DC") and pharmacologically active agents (e.g., NSAIDs). Invention conjugates provide a new class of pharmacologically active agents (e.g., anti-inflammatory agents) which cause a much lower incidence of side-effects due to the protective effects imparted by modifying the pharmacologically active agents as described herein. In addition, invention conjugates are more effective than unmodified pharmacologically active agents because cells and tissues contacted by the pharmacologically active agent(s) are protected from the potentially damaging effects of nitric oxide overproduction induced thereby as a result of the co-production of nitric oxide scavenger (e.g., dithiocarbamate), in addition to free pharmacologically active agent, when invention conjugate is cleaved.

27 Claims, 0 Drawing figures  
Exemplary Claim Number: 1

22. Document ID: US 5879713 A  
Entry 22 of 38

File: USPT

Mar 9, 1999

US-PAT-NO: 5879713  
DOCUMENT-IDENTIFIER: US 5879713 A

TITLE: Targeted delivery via biodegradable polymers

DATE-ISSUED: March 9, 1999

INVENTOR-INFORMATION:  
NAME

| CITY                 | STATE   | ZIP CODE | COUNTRY |
|----------------------|---------|----------|---------|
| Roth; Laurence A.    | Windham | NH       | N/A     |
|                      |         |          | N/A     |
| Herman; Stephen Jack | Andover | MA       | N/A     |
|                      |         |          | N/A     |

US-CL-CURRENT: 424/489; 424/423, 424/501, 514/2, 514/21, 514/824, 514/964, 514/965

**ABSTRACT:**

Delivery of bioactive molecules such as nucleic acid molecules encoding a protein can be significantly enhanced by immobilization of the bioactive molecule in a polymeric material adjacent to the cells where delivery is desired, where the bioactive molecule is encapsulated in

a vehicle such as liposomes which facilitates transfer of the bioactive molecules into the targeted tissue. Targeting of the bioactive molecules can also be achieved by selection of an encapsulating medium of an appropriate size whereby the medium serves to deliver the molecules to a particular target. For example, encapsulation of nucleic acid molecules or biologically active proteins within biodegradable, biocompatible polymeric microparticles which are appropriate sized to infiltrate, but remain trapped within, the capillary beds and alveoli of the lungs can be used for targeted delivery to these regions of the body following administration to a patient by infusion or injection.

13 Claims, 0 Drawing figures  
Exemplary Claim Number: 1

23. Document ID: US 5693769 A  
Entry 23 of 38

File: USPT  
Dec 2, 1997

US-PAT-NO: 5693769  
DOCUMENT-IDENTIFIER: US 5693769 A

TITLE: Glycosylated steroid derivatives for transport across biological membranes and process for making and using same

DATE-ISSUED: December 2, 1997

INVENTOR-INFORMATION:  
NAME

|                       | CITY      | STATE | ZIP CODE | COUNTRY |
|-----------------------|-----------|-------|----------|---------|
| Kahne; Daniel Evan    | Princeton | NJ    | N/A      | N/A     |
| Kahne; Suzanne Walker | Princeton | NJ    | N/A      | N/A     |

US-CL-CURRENT: 536/5

ABSTRACT:

Novel glycosylated steroid derivatives for facilitating the transport of compounds across biological membranes, either in admixture or as conjugates, are disclosed. A novel process for efficient synthesis of these glycosylated steroid derivatives, using activated glycosyl sulfoxide intermediates is provided. Methods for the permeabilization of membranes and the enhancement of the activity of predetermined compounds are also provided. 6 Claims, 6 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 6

24. Document ID: US 5627270 A  
Entry 24 of 38

File: USPT  
May 6, 1997

US-PAT-NO: 5627270  
DOCUMENT-IDENTIFIER: US 5627270 A

TITLE: Glycosylated steroid derivatives for transport across biological membranes and process for making and using same

DATE-ISSUED: May 6, 1997

INVENTOR-INFORMATION:  
NAME

|                         | CITY          | STATE | ZIP CODE | COUNTRY |
|-------------------------|---------------|-------|----------|---------|
| Kahne; Daniel E.        | Princeton     | NJ    | N/A      | N/A     |
| Kahne; Suzanne W.       | Princeton     | NJ    | N/A      | N/A     |
| Sofia; Michael J.       | Laurenceville | NJ    | N/A      | N/A     |
| Hatzenbuhler; Nicole T. | Kendall Park  | NJ    | N/A      | N/A     |

US-CL-CURRENT: 536/5, 536/23.1, 536/24.1, 536/24.3

ABSTRACT:

Novel glycosylated steroid derivatives for facilitating the transport of compounds across biological membranes, either in admixture or as conjugates, are disclosed. A novel process for efficient synthesis of these glycosylated steroid derivatives, using activated glycosyl sulfoxide intermediates is provided. Methods for the permeabilization of membranes and the enhancement of the activity of predetermined compounds are also provided. 7 Claims, 22 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 22

25. Document ID: US 5510396 A  
Entry 25 of 38

File: USPT  
Apr 23, 1996

US-PAT-NO: 5510396  
DOCUMENT-IDENTIFIER: US 5510396 A

TITLE: Process for producing flowable osteogenic composition containing demineralized bone particles

DATE-ISSUED: April 23, 1996

INVENTOR-INFORMATION:  
NAME

|                       | CITY | STATE | ZIP CODE | COUNTRY |
|-----------------------|------|-------|----------|---------|
| Prewett; Annamarie B. |      |       |          |         |

|                        |            |     |     |
|------------------------|------------|-----|-----|
| Little Silver          | NJ         | N/A | N/A |
| Stikeleather; Roger C. | Doylestown | PA  | N/A |
|                        |            | PA  | N/A |

US-CL-CURRENT: 523/113; 424/422, 523/114, 523/115, 623/16

**ABSTRACT:**

Demineralized bone particles having a median length to median thickness ratio of at least about 10:1 are incorporated in an osteogenic composition useful for repairing bone defects.

20 Claims, 0 Drawing figures  
Exemplary Claim Number: 1

26. Document ID: US 5507813 A  
Entry 26 of 38

File: USPT  
Apr 16, 1996

US-PAT-NO: 5507813

DOCUMENT-IDENTIFIER: US 5507813 A

TITLE: Shaped materials derived from elongate bone particles

DATE-ISSUED: April 16, 1996

**INVENTOR-INFORMATION:**

NAME

|                | CITY        | STATE | ZIP CODE | COUNTRY |
|----------------|-------------|-------|----------|---------|
| Dowd; Michael  | Bordentown  | NJ    | N/A      | N/A     |
| Dyke; Denis G. | Long Branch | NJ    | N/A      | N/A     |

US-CL-CURRENT: 623/16; 623/11, 623/66

**ABSTRACT:**

Surgically implantable shaped materials, e.g., sheets, are fabricated from elongate bone particles, advantageously those that have been demineralized. The materials when applied to a bone repair site enhance or accelerate new bone ingrowth by any one of a variety of biological and/or mechanical mechanisms.

21 Claims, 0 Drawing figures  
Exemplary Claim Number: 1

27. Document ID: US 5484601 A  
Entry 27 of 38

File: USPT  
Jan 16, 1996

US-PAT-NO: 5484601

DOCUMENT-IDENTIFIER: US 5484601 A

TITLE: Flowable demineralized bone powder composition and its use in bone repair

DATE-ISSUED: January 16, 1996

**INVENTOR-INFORMATION:**  
NAME

|                      | CITY        | STATE | ZIP CODE | COUNTRY |
|----------------------|-------------|-------|----------|---------|
| O'Leary; Robert K.   | Spring Lake | NJ    | N/A      | N/A     |
| McBrayer; Patrick A. | Yardley     | PA    | N/A      | N/A     |

US-CL-CURRENT: 424/422; 424/184.1, 424/423, 424/520, 424/549, 424/562, 424/94.1, 514/772.2, 514/772.3, 514/772.6, 514/774, 514/777, 514/778, 514/781, 514/785, 514/801, 514/802

**ABSTRACT:**

A flowable demineralized bone powder composition is provided for use in surgical bone repair.

13 Claims, 0 Drawing figures  
Exemplary Claim Number: 1

28. Document ID: US 5439684 A  
Entry 28 of 38

File: USPT  
Aug 8, 1995

US-PAT-NO: 5439684  
DOCUMENT-IDENTIFIER: US 5439684 A

TITLE: Shaped, swollen demineralized bone and its use in bone repair

DATE-ISSUED: August 8, 1995

**INVENTOR-INFORMATION:**  
NAME

|                        | CITY          | STATE | ZIP CODE | COUNTRY |
|------------------------|---------------|-------|----------|---------|
| Prewett; Annamarie B.  | Little Silver | NJ    | N/A      | N/A     |
| Stikeleather; Roger C. | Doylestown    | PA    | N/A      | N/A     |
| Bogdansky; Simon       | Marlboro      | NJ    | N/A      | N/A     |
| O'Leary; Robert K.     | Spring Lake   | NJ    | N/A      | N/A     |

US-CL-CURRENT: 424/422, 424/423, 424/549, 514/777, 623/16

ABSTRACT:

A shaped piece of swollen demineralized bone which can also be plasticized is provided for use in surgical bone repair.  
26 Claims, 18 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 3

said functional group already reacted with an additional group.  
Oligonucleotides having the pseudonucleoside at the 3' terminus are particularly stable in vivo.  
9 Claims, 0 Drawing figures  
Exemplary Claim Number: 1

29. Document ID: US 5414077 A  
Entry 29 of 38

File: USPT

May 9, 1995

US-PAT-NO: 5414077  
DOCUMENT-IDENTIFIER: US 5414077 A

TITLE: Non-nucleoside linkers for convenient attachment of labels to oligonucleotides using standard synthetic methods

DATE-ISSUED: May 9, 1995

INVENTOR-INFORMATION:  
NAME

|                 | CITY       | STATE | ZIP CODE | COUNTRY |
|-----------------|------------|-------|----------|---------|
| Lin; Kuei-Ying  | Fremont    | CA    | N/A      |         |
| Matteucci; Mark | Burlingame | CA    | N/A      |         |

US-CL-CURRENT: 536/24.3, 435/6, 536/25.32, 546/23

ABSTRACT:

Pseudonucleosides and pseudonucleotides are useful in the synthesis of oligomers which contain these components as a means to derivatize the resulting oligonucleotide to useful substituents such as chelators, intercalators, or lipophilic compounds. In general, these pseudonucleotide components are of the formula: ##STR1## wherein each Y is independently O or S; each X is independently H, PO<sub>2</sub>sub.3.sup.-2, an activated nucleotide synthesis coupling moiety, a protecting group, a nucleoside, a nucleotide or a nucleotide sequence, or comprises a solid support;

F is a functional group capable of linking an additional moiety or said group already reacted to effect the binding of said additional moiety;

quadrature, is an organic backbone which does not contain additional F or Y-X substituents and which is either achiral even when the Y-X substituents are different, or is a single enantiomer of a chiral compound;

with the proviso that at least one X is a nucleoside, nucleotide, nucleotide sequence, an activated nucleotide synthesis coupling moiety, or comprises a solid support, or F represents

30. Document ID: US 5405390 A  
Entry 30 of 38

File: USPT

Apr 11, 1995

US-PAT-NO: 5405390  
DOCUMENT-IDENTIFIER: US 5405390 A

TITLE: Osteogenic composition and implant containing same

DATE-ISSUED: April 11, 1995

INVENTOR-INFORMATION:  
NAME

|                       | CITY          | STATE | ZIP CODE | COUNTRY |
|-----------------------|---------------|-------|----------|---------|
| O'Leary; Robert K.    | Spring Lake   | NJ    | N/A      |         |
| Prewett; Annamarie B. | Little Silver | NJ    | N/A      |         |

US-CL-CURRENT: 623/16

ABSTRACT:

An osteogenic composition is obtained from demineralized bone tissue. 32 Claims, 2 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 1

31. Document ID: US 5314476 A  
Entry 31 of 38

File: USPT

May 24, 1994

US-PAT-NO: 5314476  
DOCUMENT-IDENTIFIER: US 5314476 A

TITLE: Demineralized bone particles and flowable osteogenic composition containing same

DATE-ISSUED: May 24, 1994

INVENTOR-INFORMATION:  
NAME

|                        | CITY          | STATE | ZIP CODE | COUNTRY |
|------------------------|---------------|-------|----------|---------|
| Prewett; Annamarie B.  | Little Silver | NJ    | N/A      |         |
| Stikeleather; Roger C. | Doylesstown   | PA    | N/A      |         |

N/A  
N/A

US-PAT-NO: 5290558  
DOCUMENT-IDENTIFIER: US 5290558 A

US-CL-CURRENT: 623/16; 424/422, 424/423, 623/11, 623/18

**ABSTRACT:**

Demineralized bone particles having a median length to median thickness ratio of at least about 10:1 are incorporated in an osteogenic composition useful for repairing bone defects.  
20 Claims, 0 Drawing figures  
Exemplary Claim Number: 1

32. Document ID: US 5298254 A  
Entry 32 of 38

File: USPT  
Mar 29, 1994

US-PAT-NO: 5298254  
DOCUMENT-IDENTIFIER: US 5298254 A

TITLE: Shaped, swollen demineralized bone and its use in bone repair  
DATE-ISSUED: March 29, 1994

**INVENTOR-INFORMATION:**  
NAME

CITY  
STATE  
ZIP CODE  
COUNTRY

Prewett; Annamarie B.

Little Silver  
NJ  
N/A  
N/A

Stikeleather; Roger C.

Doylestown  
PA  
N/A  
N/A

Bogdansky; Simon

Marlboro  
NJ  
N/A  
N/A

O'Leary; Robert K.

Spring Lake  
NJ  
N/A  
N/A

US-CL-CURRENT: 424/422; 424/423, 424/549, 514/772.3, 514/777, 514/779, 514/780, 514/785, 514/801, 514/802, 514/953, 623/16

**ABSTRACT:**

A shaped piece of swollen demineralized bone which can also be plasticized is provided for use in surgical bone repair.  
30 Claims, 18 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 3

33. Document ID: US 5290558 A  
Entry 33 of 38

File: USPT  
Mar 1, 1994

TITLE: Flowable demineralized bone powder composition and its use in bone repair

DATE-ISSUED: March 1, 1994

**INVENTOR-INFORMATION:**  
NAME

CITY  
STATE  
ZIP CODE  
COUNTRY

O'Leary; Robert K.  
Spring Lake  
NJ  
N/A  
N/A

McBrayer; Patrick A.  
Yardley  
PA  
N/A  
N/A

US-CL-CURRENT: 424/422; 424/423, 424/549, 514/772, 514/777, 623/16

**ABSTRACT:**

A flowable demineralized bone powder composition is provided for use in surgical bone repair.  
21 Claims, 0 Drawing figures  
Exemplary Claim Number: 1

34. Document ID: US 5236456 A  
Entry 34 of 38

File: USPT  
Aug 17, 1993

US-PAT-NO: 5236456  
DOCUMENT-IDENTIFIER: US 5236456 A

TITLE: Osteogenic composition and implant containing same

DATE-ISSUED: August 17, 1993

**INVENTOR-INFORMATION:**  
NAME

CITY  
STATE  
ZIP CODE  
COUNTRY

O'Leary; Robert K.  
Spring Lake  
NJ  
N/A  
N/A

Prewett; Annamarie B.  
Little Silver  
NJ  
N/A  
N/A

US-CL-CURRENT: 623/16; 128/DIG.8, 424/422, 623/18

**ABSTRACT:**

An osteogenic composition is obtained from demineralized bone tissue.  
28 Claims, 2 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 1

35. Document ID: US 5073373 A  
Entry 35 of 38

File: USPT

Dec 17, 1991

US-PAT-NO: 5073373  
DOCUMENT-IDENTIFIER: US 5073373 A

TITLE: Flowable demineralized bone powder composition and its use in bone repair

DATE-ISSUED: December 17, 1991

INVENTOR-INFORMATION:  
NAME

|                      | CITY        | STATE | ZIP CODE | COUNTRY |
|----------------------|-------------|-------|----------|---------|
| O'Leary; Robert K.   | Spring Lake | NJ    | N/A      | N/A     |
| McBrayer; Patrick A. | Yardley     | PA    | N/A      | N/A     |

US-CL-CURRENT: 424/422; 424/423, 424/549, 424/94.1, 514/785, 514/801, 514/802, 623/16

ABSTRACT:

A flowable demineralized bone powder composition is provided for use in surgical bone repair.

14 Claims, 0 Drawing figures  
Exemplary Claim Number: 1

36. Document ID: US 5061286 A  
Entry 36 of 38

File: USPT

Oct 29, 1991

US-PAT-NO: 5061286  
DOCUMENT-IDENTIFIER: US 5061286 A

TITLE: Osteoprosthetic implant

DATE-ISSUED: October 29, 1991

INVENTOR-INFORMATION:  
NAME

|               | CITY   | STATE | ZIP CODE | COUNTRY |
|---------------|--------|-------|----------|---------|
| Lyle; John W. | Belmar | NJ    | N/A      | N/A     |

US-CL-CURRENT: 623/16; 623/23, 623/66

ABSTRACT:

At least a portion of the surface of an osteoprosthetic implant is provided with demineralized bone powder adhering thereto. Sorption of the bone particles is accompanied by rapid and deep

bone in-growth which firmly anchors the prosthesis to the host bone repair site.  
19 Claims, 5 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 1

37. Document ID: AU 9883786 A, WO 9901579 A1  
Entry 37 of 38

File: DWPI

Jan 25, 1999

DERWENT-ACC-NO: 1999-106077  
DERWENT-WEEK: 199923  
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TITLE: Composition comprising nucleic acid and penetration enhancer - used particularly for delivering therapeutic antisense oligonucleotides across the gastrointestinal mucosa, provides high bioavailability  
INVENTOR: HARDEE, G; TENG, C

PRIORITY-DATA:  
1997US-0886829

July 1, 1997

PATENT-FAMILY:  
PUB-NO

| PUB-DATE                          | LANGUAGE | PAGES | MAIN-IPC   |
|-----------------------------------|----------|-------|------------|
| AU 9883786 A<br>January 25, 1999  | N/A      | 000   | C12Q001/68 |
| WO 9901579 A1<br>January 14, 1999 | E        | 114   | C12Q001/68 |

INT-CL (IPC): A61K 9/127; A61K 48/00; C07H 21/04; C12Q 1/68

ABSTRACTED-PUB-NO: WO 9901579A  
BASIC-ABSTRACT:

Composition comprises a nucleic acid (I) and at least one penetration enhancer (II).

USE - The compositions are used: (i) to treat or prevent any disease or disorder that can be treated with (I), e.g. cancer, Alzheimer's disease, beta-thalassemia, malaria, viral infections (including human immune deficiency virus (HIV)), inflammation etc., in human or animal medicine; (ii) to investigate the role of a gene or gene product in non-human animals, and (iii) to modulate gene expression in cells, tissues or organs.

ADVANTAGE - The compositions provide bioavailability of at least 15, preferably 17-35%, (II) improves: (i) transport of (I) across the mucosa of the alimentary canal and into cells, and (ii) increases stability of (I). Oral administration avoids the complications and expense of intravenous or other methods of administration.

38. Document ID: WO 9113080 A, AU 9175799 A, US 5414077 A

DERWENT-ACC-NO: 1991-281412  
 DERWENT-WEEK: 199138  
 COPYRIGHT 2000 DERWENT INFORMATION LTD  
 TITLE: New pseudo-nucleotide(s), pseudo-nucleoside(s) and their polymers - useful in anti-sense therapy and can be modified to enhance exo-nuclease stability, specific binding to DNA or RNA targets, etc.  
 INVENTOR: LIN, K; MATTEUCCI, M ; LIN, K Y

PRIORITY-DATA:  
 1990US-0594147

|                |                   |
|----------------|-------------------|
| 1990US-0482943 | October 9, 1990   |
| 1994US-0237233 | February 20, 1990 |
|                | May 2, 1994       |

PATENT-FAMILY:  
 PUB-NO

| PUB-DATE           | LANGUAGE | PAGES | MAIN-IPC   |
|--------------------|----------|-------|------------|
| September 5, 1991  | N/A      | 000   | N/A        |
| September 18, 1991 | N/A      | 000   | N/A        |
| May 9, 1995        | N/A      | 013   | C07H021/04 |

INT-CL (IPC): A61K 31/70; C07H 17/00; C07H 21/04

ABSTRACTED-PUB-NO: US 5414077A  
 BASIC-ABSTRACT:

Pseudonucleosides and pseudonucleotides of formula (I) are new. Y = O or S. X = H, PO3(-2), an activated nucleotide synthesis coupling moiety, a protecting gp. a nucleoside, a nucleotide or nucleotide sequence, or comprises a solid support.

F is a functional gp. which is either bound to an additional moiety or is capable of binding to it. The square denotes an organic backbone which does not contain F or Y-X substituents, and which is either achiral or is a single enantiomer. Either at least one X is a nucleoside, nucleotide, nucleotide sequence, an activated nucleotide synthesis coupling moiety or is a solid support; or when both X = H, the functional gp. F is derivatised to a reporter gp. oligonucleotide cleavage or binding agent, membrane penetration enhancer, oligonucleotide cross-linking agent or protecting gp.

(I) is e.g. XY-(CH<sub>2</sub>)<sub>n</sub>-N(F)-(CH<sub>2</sub>)<sub>n</sub>-YX, where n = 1-10. F is e.g. ethyl, cholestryl, acridine, anthraquinone or rhodamine.

USE/ADVANTAGE - (I) (when at least one X is a nucleotide sequence) are useful in diagnostics and

for treating diseases mediated by polynucleotides or proteins. They can be utilised in antisense therapy, since they are able to inactivate certain target DNA, RNA or protein sequences.

Modifications may be made at the 3' terminus of (I) to enhance in vivo stability to exonucleases.

These modifications do not interfere with activity. Other desirable properties that may be conferred include enhanced specific binding to DNA or RNA targets, permeation into cells and resistance to renal clearance. Injection is the pref. route of admin. but (I) can also be given orally, transmucosally, transdermally or topically.

ABSTRACTED-PUB-NO:

WO 9113080A EQUIVALENT-ABSTRACTS:

Cpds. of formula (I) are new. n = 1-10, Y - O or S. One X = a nucleotide, nucleotide, oligonucleotide, activated nucleotide synthesis coupling agent and a solid support linked to Y and the other is HPO3/2-, a protecting gp., a nucleoside, nucleotide or oligonucleotide. F = a functional linker or gp. e.g. a reporter, oligonucleotide cleavage entity, oligonucleotide binding agent, membrane penetration enhancer, oligonucleotide crosslinking agent or protecting gp.

USE - For forming oligomers to be used in diagnosis.

| Term     | Documents |
|----------|-----------|
| 2 SAME 4 | 38        |

including document number

Display Format: